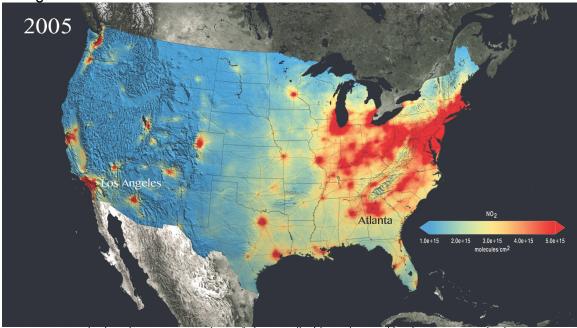
Name:	Date:	

## **Bad Ozone: Activity 3**

## Looking at Satellite Data: Comparing NO. Pollution and Population

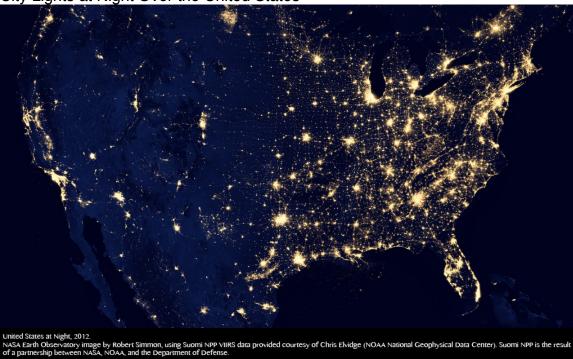
Nitrogen Dioxide Concentrations in the United States in 2005



Average tropospheric column concentrations of nitrogen dioxide as detected by the Ozone Monitoring Instrument on NASA's Aura satellite for 2005. Blue and green denote lower concentrations and orange and red areas denote higher concentrations, ranging from 1e+15 to 5e+15 molecules per square centimeter, respectively.

Image credit: NASA Science Visualization Studio.

City Lights at Night Over the United States



1. Where in the U.S. are lights the easiest to see and why?
2. Where in the U.S. are NO2 concentrations highest?
3. Where in the U.S. are NO2 concentrations lowest?
4. Do the NO2 concentrations tend to increase or decrease in cities? Why?
5. Does NO2 concentrations on the ground tend to be high or low in rural areas compared to cities, why?
6. Why do you think pollution concentrations are much higher in the eastern U.S. than in the western and central U.S.?